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Notice of Allowability	Application No.	Applicant(s)
	10/604,081	CHENG ET AL.
	Examiner	Art Unit
	Jennifer M. Kennedy	2812
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS
1. X This communication is responsive to the amendment filed 4/11/2005.		
2. The allowed claim(s) is/are <u>1-17,21,22 and 27-33</u> .		
3. 🔀 The drawings filed on <u>25 June 2003</u> are accepted by the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application No. cuments have been received in thi	s national stage application from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.	
 A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 		
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the position of the position o	on's Patent Drawing Review (PTC) s Amendment / Comment or in the .84(c)) should be written on the draw he header according to 37 CFR 1.12	Office action of vings in the front (not the back) of 1(d). . must be submitted. Note the
attached Examiner's comment regarding REQUIRENT	FOR THE DEPOSIT OF BIOLOGI	CAL MATERIAL.
Attachment(s)	E - Making of the con-	Defeat Application (DTO 450)
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 	5. ☐ Notice of Informal 6. ☑ Interview Summar	Patent Application (PTO-152)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail D	ate
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8 ⊠ Examiner's Staten	nent of Reasons for Allowance
of Biological Material	9. Other	Jenniter M. Kennedy Primary Examiner Art Unit 2812

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Steven Capella on June 23, 2004.

The application has been amended as follows:

In claim 1, line 11, after "thereby forming the buried plate;" remove "and".

In claim 1, line 11, after "thereby forming the buried plate;" insert on the next line

--wet etching the trench such that the cross section of the upper portion of the trench is squared while the lower portion of the trench is protected by the dopant source material; and --

In claim 3, line 11, after "thereby forming the buried plate;" remove "and".

In claim 3, line 11, after "thereby forming the buried plate;" insert in a new paragraph

--wet etching the trench such that the cross section of the upper portion of the trench is squared while the lower portion of the trench is protected by the dopant source material; and —

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The following is an examiner's statement of reasons for allowance: the prior art, either singly or in combination, fails to anticipate or render obvious, the method including the limitations of: non-conformally partially filling the trench with a dopant source material to form a dopant source having a top surface below a top of the trench, the dopant source material containing at least one dopant, covering the sidewall of the trench above the dopant source with a second material, heating the substrate to cause the dopant to diffuse into the substrate in the trench not covered by the second material, thereby forming the buried plate in combination with the method of wet etching the trench such that the cross section of the upper portion of the trench is squared while the lower portion of the trench is protected by the dopant source material as claimed in independent claims 1 and 3.

In re claim 11, the reasons for allowance set forth in the non-final action mailed January 21, 2005 are maintained.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer M. Kennedy whose telephone number is (571) 272-1672. The examiner can normally be reached on Mon.-Fri. 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael S. Lebentritt can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jennifer M. Kenne Primary Examiner Art Unit 2812

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